

Title (en)  
BRIDGED STAGE PIECE

Title (de)  
ÜBERBRÜCKTES STUFENSTÜCK

Title (fr)  
PIÈCE D'ÉTAGE PONTÉE

Publication  
**EP 3828417 A1 20210602 (EN)**

Application  
**EP 20190659 A 20200812**

Priority  
US 201962941353 P 20191127

Abstract (en)  
A stage piece for a multistage pump includes a first ring, a second ring, and a post. The connects the first ring to the second ring and has a first radial end and a second radial end and a first side and a second side connecting the first and second ends. The first and second sides are arcuate and extend toward each other such that the first radial end is longer than the second radial end.

IPC 8 full level  
**F04D 1/06** (2006.01); **F04D 29/42** (2006.01)

CPC (source: CN EP US)  
**F04D 1/06** (2013.01 - CN EP); **F04D 29/426** (2013.01 - CN); **F04D 29/4273** (2013.01 - EP); **F04D 29/44** (2013.01 - US);  
**F05B 2240/14** (2013.01 - US)

Citation (search report)  
• [XII] US 3861825 A 19750121 - BLOM CARL J  
• [XA] US 2010014963 A1 20100121 - HIRSCHBERGER MICHAEL [DE], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3828417 A1 20210602**; **EP 3828417 B1 20231206**; CN 112963380 A 20210615; US 11286950 B2 20220329; US 2021156398 A1 20210527

DOCDB simple family (application)  
**EP 20190659 A 20200812**; CN 202011267188 A 20201113; US 202016780352 A 20200203